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DEM 8937-408

MSDS No.: PPC-0603

Product Name: CF TONER C3A (CYAN) Prepared date:12-Jan-2000 Revised Date: 11-Sep-2002

1. PRODUCT AND COMPANY IDENTIFICATION Product Name: CF TONER C3A (CYAN) used for: CF1501, CF2001, CF2001P

Supplier Identification: Minolta Corporation 101 Williams Drive, Ramsey, New Jersey 07446, U.S.A. Telephone: 201-825-4000

Emergency Telephone No. Contact your regional poison control center.

2. COMPOSITION / INFORMATION ON INGREDIENTS Substance [] Preparation [X]

Major Ingredients: [Generic Name] Polyester resin Organic pigment Titanium compound Polyolefin wax Amorphous silica

[CAS No.] [%] +++ 85-95 147-14-8 1-5 +++ 1-5 +++ 1-5 7631-86-9 < 1

+++: Supplier's confidential information

Hazardous Ingredients: None present



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3. HAZARDS IDENTIFICATION

Classification : Not classified as dangerous. (1999/45/EC) Most Important Hazards and Effects of the Products For Human Health: This toner is not classified as a human carcinogen. No symptoms expected with intended use.

For the Environment: No data are available on the adverse effects of this product on the environment.

For Others: None

Specific Hazards: Dust explosion (like most finely divided organic powders)

4. FIRST-AID MEASURES

Symptoms of Overexposure: No symptoms expected with intended use. Routes of Entry: Eye contact, inhalation, ingestion

Information

Inhalation: If symptoms are experienced, remove source of contamination or move victim to fresh air and obtain medical advice.

- Skin Contact: Flush with gently flowing water (preferably lukewarm) and soap for 15 minutes or until particle is removed. If irritation does occur, obtain medical advice.
- Eye Contact: Do not allow victim to rub eye(s). Flush with gently flowing water (preferably lukewarm) for 15 minutes or until particle is removed. Have victim look right and left, and, then up and down. If irritation does occur, obtain medical attention. DO NOT attempt to manually remove anything stuck to the eye(s).

Ingestion: If irritation or discomfort occurs, obtain medical attention immediately.

Note to Physician: None

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO2, water spray, foam and dry chemical Extinguishing Media to Avoid: Full water jet Special Firefighting Procedures: None

Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, may form an explosive mixture.

Protection of Firefighters: Use self-contained breathing apparatus (SCBA).

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wipe off with paper or cloth.

DO NOT use vacuum cleaner when a large amount is released. It, like most finely divided organic powders, may create a dust explosion.



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Product Name: CF TONER C3A (CYAN) Prepared date:12-Jan-2000 Revised Date: 11-Sep-2002 7. HANDLING AND STORAGE Handling Technical Measures: None Precautions: None

Safe Handling Advice: Try not to disperse the particles. Storage Technical Measures: None Storage Conditions: Keep container closed. Store in a cool and dry place. Keep out of reach of children. Incompatible Products: None

Packing Materials: Bottles or Cartridge designated by Minolta.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures

Ventilation: None required with intended use.

Control Parameters (As total dust)

OSHA-PEL(USA): 15mg/m3 ACGIH-TLV(USA): 10mg/m3

- DFG-MAK(GER): 4mg/m3 Worksafe-TWA(Austl.): 10mg/m3
- Personal Protective Equipment

None required when used as intended in Minolta equipment.

Other: For use other than normal customer-operating procedures (such as in bulk toner processing facilities), goggles and respirators may be required.

Hygiene Measures: Wash hands after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES Appearance Form: Powder Physical State: Solid Color: Blue Odor: Faint odor Particle Size (um) : 5 - 15pH: Not applicable Boiling Point: Not applicable Melting Point (°C): No data available Softening Point(°C): No data available Flash Point: Not applicable Ignition Temperature (°C): No data available Explosion Properties: No data available Vapor Pressure: Not applicable Density (q/cm^3) : about 1.2 (bulk density: 0.4 *) Solubility in water: Negligible Oxidizing Properties: No data available Partition Coefficient, n-Octanol/Water: Not applicable (*= Based on data for other Minolta Products with similar ingredients)



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<pre>10. STABILITY AND REACTIVITY Stability: Stable [X] Unstable [] Hazardous Reactions: Dust explosion, l</pre>	ike most finely divided organic throwing into fire.
11. TOXICOLOGICAL INFORMATION Health Effects from Exposure: No symptoms Toxicological Data Acute Toxicity: Inhalation, LC50(mg/l): No data	expected with intended use.
Eye irritation: Minimal irritant Skin irritation: Non irritant (Rab Skin sensitizer: Non sensitizer (G	<pre>a available (Rabbit) * bit) * uinea pig) * * (AMES test) ets with similar ingredients) ong term Toxicity st may cause lung damage. It is eric response to excessive amounts a prolonged interval. Use of this in inhalation of excessive dust. ion exposure to a typical toner, cosis was observed in 92% of rats osure group, and a minimal to mild the animals in the middle(4mg/m³) was reported in the lowest(1mg/m³)</pre>



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12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

13. DISPOSAL CONSIDERATION

Appropriate Methods of Disposal

Preparation (community provisions):

Waste may be disposed or incinerated under conditions which meet all federal, state and local environmental regulations.

Contaminated Packaging:

Waste may be disposed or incinerated under conditions which meet all federal, state and local environmental regulations.

Precautions:

Do not throw the toner cartridge or toner into an open flame. The hot toner may scatter and cause burns or other damage.

14. TRANSPORT INFORMATION

Special Precautions: None Information on Code and Classifications According to International Regulations UN Classification: None

15. REGULATORY INFORMATION

US Information
Information on the label: Not required
TSCA(Toxic Substances Control Act):
All chemical substances in this product comply with all applicable rules or order under TSCA.
SARA(Superfund Amendments and Reauthorization Act) Title III
302 Extreme Hazardous Substance: None
311/312 Hazard Categories: None
313 Reportable Ingredients: None
California Proposition 65:
This product contains no chemical substances subject to California
Proposition 65.
EU Information
Information on the label (1999/45/EC and 67/548/EEC):
Symbol & Indication: Not required
R-Phrase: Not required
S-Phrase: Not required
76/769/EEC:
All chemical substances in this product comply with all applicable rules or order under 76/769/EEC.
Article 14(2.1) of Directive 1999/45/EC is not applicable to this product.



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16. OTHER INFORMATION

NFPA Hazard Rating: The National Fire Protection Agency(USA): Health: 1 Flammability: 1 Reactivity: 0 HMIS Rating: The National Paint and Coating Association(USA): Health: 1 Flammability: 1 Reactivity: 0 Recommended Uses:

Toner for Photocopier CF1501, CF2001, CF2001P

Restrictions:

Information on this data sheet represents our current data and the best opinion as to the proper use in handling of this product under normal conditions specified in our User 's Manual. However, neither Minolta Co., Ltd. nor any of its subsidiaries assumes any liability what so ever for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we do not guarantee that these are the only hazards which exist.

Literature References:

ANSI Z400.1-1993 ISO 11014-1 Commission Directive 91/155/EEC

H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka, and R.Mermelstein(1991) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.